

The program of courses listed below satisfies the ABET accreditation criteria of 32 credits of mathematics and basic sciences, 48 credits of engineering sciences and engineering design. Any deviations must be approved by the student's advisor, department chair and dean. The University General Education Core & graduation requirements for Engineering are included. All lower division CEE courses must be completed before taking upper division CEE courses, except for CEE 370 and 370L. CEE 211 may be taken concurrently with the first semester junior courses. All CEE courses must be passed within 2 attempts.

ALL COURSES MUST BE TAKEN FOR LETTER (A - F) GRADES

LOWER DIVISION											
FRESHMAN						SOPHOMORE					
Eng 100 (FW)	3		Math 242	3		CEE 270	3		CEE 271	3	
Math 241 (FS)	4		Math 242L	1		Math 243	3		Math 244	3	
Chem 161 (DP)	3		Phys 170 (DP)	4		Phys 272 (DP)	3		CE 370	3	
Chem 161L (DY)	1		Phys 170L (DY)	1		Phys 272L (DY)	1		CE 370L	1	
Sp 251 (DA)	3		Chem 162 (DP)	3		FG	3		CEE 211/211L	2/1	
CEE 123	1		EE 160	4		DH or DL	3		FG	3	
H Focus (1)			E Focus (1)			O Focus (1)			W Focus (5)		

UPPER DIVISION											
JUNIOR						SENIOR					
CEE 305	3		CEE 330	4		CEE 461, 462 or 464	3		CEE 421	3	
CEE 320	4		CEE 355	4		CEE 472, 473 or 474	3		CEE 455	3	
CEE 361	3		CEE 375	3		TE	3		CEE 490	3	
Econ 120, 130 or 131 (DS)	3		CEE 381	3		TE	3		TE	3	
ME 403, GG 312 or Math 302	3		DS	3		BSE (DB)	3		TE	3	

ALTERNATIVE SENIOR YEAR TRACKS

STRUCTURES*						ENVIRONMENTAL*					
CEE 472, 473 or 474	3		CEE 421	3		CEE 422 or 424	3		CEE 421	3	
CEE 482	3		CEE 455	3		CEE 431	3		CEE 432 or BEE	3	
CEE 485	4		CEE 486	3		CEE 433	3		CEE 455	3	
ME 360 or Math 407	3		CEE 490	3		CEE 462, 464, 472 or 485	3/4		CEE 490	3	
BSE (DB)	3		CEE 491	3		Chem 152 (DB)	3		Micro 130	3	

\* Students who want to pursue the structures or the environmental track should ask the department office to assign them an advisor from the appropriate area.

ELECTIVES						NOTES					
<p><b>BSE: Biological Science Elective</b> Micr 130; Biol 101, 123; Zool 101 The associated laboratories are not required.</p> <p><b>TE: Technical Elective</b> Any 400 or 600 level CEE course. May include a maximum of one course from: EE 211; GG 454; ME 311, 374; ORE 411</p> <p><b>BEE: Bioengineering Elective</b> Any 400 or 600 level BE course approved by advisor</p>						<ol style="list-style-type: none"> <li>Please refer to General Education Core Requirements in UH Manoa Catalog for Diversification (DH, DL, DS) and FG Foundation Courses.</li> <li>Math 251/252/242L/253 may be substituted for Math 241-244 above.</li> <li>Chem 181/181L may be substituted for Chem 161/161L and Chem 162 above.</li> <li>Writing Intensive (W) required - 5 courses (minimum of 2 in upper division).</li> <li>One course each required for Hawaiian, Asian, &amp; Pacific Issues (H), Oral Communication (O), and Contemporary Ethical Issues (E).</li> <li>'C' or better required for Phys 170 and CEE 270.</li> </ol>					
						APPROVAL FOR GRADUATION: Initial: _____ Date: _____					